IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Qian Xie et al. Appln. No. : 10/594,136

Filing Date : September 25, 2006

For : GELDANAMYCIN AND DERIVATIVES INHIBIT CANCER

INVASION AND IDENTIFY NOVEL TARGETS

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97(b)

Pursuant to 37 CFR §§1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached Form PTO-1449. This Information Disclosure Statement is being filed more than three months of the date of entry of the national stage in an international application but, to the undersigned's knowledge, before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed foreign patent documents and non-patent literature are attached. Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form.

The listed documents were cited in the International Search Report which issued from a corresponding International Patent Application. A copy of the International Search Report is included herewith. The International Search Report is not a reference, and Applicants do not necessarily subscribe to any of the statements contained therein.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art." under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant : Qian Xie et al. Appln. No. : 10/594,136

Page : 2

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filling of this Statement, please charge the fee to our Deposit Account No. 16-2463.

Respectfully submitted,

February 5, 2007 /Marcus P. Dolce/

Date Marcus P. Dolce, Registration No. 46 073

Price, Heneveld, Cooper, DeWitt & Litton, LLP 695 Kenmoor, S.E.

Post Office Box 2567 Grand Rapids, MI 49501

(616) 949-9610

MPD/msj

PTO/SB/06a (08-03)

Pages, Columns, Lines where

Pages.Columns.Lines where

Relevant Passages or Relevant

Figures Appear

Relevant Passages or Relevant

Approved for use through 07/31/2006 OMB 0651-0031
U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a velid OMB control number.

10504430

Name of Patentee or Applicant

Name of Patentee or Applicant

of cited Document

	Application Number		10384130	
	Filing Date		2006-09-25	
NFORMATION DISCLOSURE	First Named Inventor	Qian 2	Xie	•
STATEMENT BY APPLICANT Not for submission under 37 CFR 1.99)	Art Unit			•
NOT TO SUBMISSION UNDER ST OF IC 1.33)	Examiner Name			
	Attorney Docket Numb	er	VAN67- P-332A	

U.S.PATENTS

U.S.PATENT APPLICATION PUBLICATIONS

Kind

Code1

If you wish to add additional U.S. Patent citation information please click the Add button

Kind Publication

Issue Date

Patent Number

Annication Number

initial*	No	Publication Number	Code ¹	Date	 of cited Docu	ment		vant Passages or Relev res Appear	ant
	1								
If you wis	n to a	dd additional U.S. Publi	<u>_</u>	<u> </u>	 		d butto	on.	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	,	Publication Date	Name of Patente Applicant of cited Document		Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	TS
	1	03066005	wo		2003-08-14				
	2	0045805	wo		2000-08-10				
	3	9408578	wo		1994-04-28				

Examiner Cite

1

Examiner Cite Publication Number

Initial* Nο

	Application Number		10594136
	Filling Date		2006-09-25
INFORMATION DISCLOSURE	First Named Inventor	Qian	Xie
(Not for submission under 37 CFR 1.99)			
(NOT for Submission under 57 GFK 1.55)	Examiner Name		
	Attorney Docket, Numb	er	VAN67- P-332A

			NON-PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No	(book,	e name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), Titler, city and/or country where published.
	1		JR et al., "Inhibition of the Oncogene Product p185er8-2 in Vitro and in Vivo by Geldanamyoin and ogeldanamyoin Derivatives," Journal of Medicinal Chemistry, 1995, pages 3806-3812
If you wish	to ac	dd additi	ional non-patent literature document citation information please click the Add button
			EXAMINER SIGNATURE
Examiner	Signa	ature	Date Considered

See Kind Codes of USPTO Patient Documents all years LUSPTO.000 or MPEP 801.54. * Enter office that issued the document, by the law-later code (MPO Standard 513, * **Po*-Japanese pointed documents, the reduction of the year of the subject the Unique or must protected by an and involve of the years of the subject to the Unique of the Unique or must protected by an anish number of the years of counters.

Employ lavyages protections in attached.

Employ lavyages protections in attached.

**Indicate the protections at

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

CERTIFICATION STATEMENT

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patient office in a counterpart foreign application not more than three months prior to the filling of the information disclosure statement. See 37 CFR 1-97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(c) and the contraction of t

See attached certification statement.

Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature

Signature	/Marcus P. Dolce/	Date (YYYY-MM-DD)	2007-02-05
Name/Print	Marcus P. Dolce	Registration Number	46 073

This collection of information is required by 3T CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to life (and by the USPTO to process) are application. Conditionality is governed by 35 U.S. C. 22 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application from the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer. U.S. Patent and Trademark Office, U.S. Department of Commence, P.O. Box 1450, Alexandrix, V.2.2313-1450, ON ONT SEND.
FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandrix, V.2.2313-1450, ON ONT SEND.

PCT/US2005/010351

			PCT/US2005/010351
IPC 7	rication of subject matter C07D225/06 A61K31/33 A61P35	/00	
	o international Palent Classification (IPC) or to both national class SEARCHED	iticalish and IPC	
	comertation searched (classification evetern to loved by classifi-	cetion symbols)	
	Con appropriate of their their minimum documentation to the extent by		
	ists been consulted during the International exerch (name of date termal, WPI Data, CHEM ABS Data	base and, where practical,	coarch forms Used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category*		raloveni passagas	Helevant to claim No.
x	WO 03/066005 A (CONFORMA THERAP CORPORATION; ZHAMG, LIN; LE BRA JEAN-YYES;) 14 August 2003 (200 page 165 - page 167; tables 3,4	ZIOEC, 3-08-14)	1-31
x	WO 00/45805 A (THE GOVERNMENT O UNITEO STATES OF AMERICA, REPRE THE SEC) 10 August 2000 (2000-0 examples	SENTED BY	1-31
x	NO 94/08578 A (THE GOVERNMENT O UNITED STATES OF AMERICA, AS) 28 April 1994 (1994-04-28) table 1	F THE	1-31
		-/	
X Purb	her documents are fixed in the continuesion of box C.	Patent family ma	onitions are listed in arrays.
	togorfee of siled documents :	"T" later document public	shed after the international filing data not in conflict with the application but the pricebile or theory underlying the
"A" docume consid	ent defining the general state of the art which is not seed to be of particular relevance occurrent but published on or after the Internetional	Invention	
filing d	iste .	To document of perfour cornot be considered involve an investive	or reliments; the distrest invention ad novel or cannot be considered to step when the document in taken along
	et which may throw doubts on priority claim(s) or is clad to establish the publication data of enoting no rather special reason (as specified) and reterring to an east disobstant, use, exhibition or	"I" document of perflouis gennal be considered	ir relevence; the claimed invention of to involve an inventive stop when the sed with one or more other such docu-
othern	neane ent published prior to the Internetional filling date but an the priority date distored	marts, such combin in the act. "&" document member of	ation being obvious to a person eidled
	schief completion of the international search		International search seport
13	3 June 2005	20/06/20	05
Nema end m	nelling address of the ISA	Authorized efficer	
	European Patent Office, P.S. 5816 Patentisen 2 NL - 2280 HV 164-WK Tol. (+91-70) 340-2040, Tx. 91 651 apo nl, Fax: (+91-70) 340-3016	Menegaki	, F

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

PCT/US2005/010351

X SCHUME ET ML: "Inhibition of the Geogene Product pilebra-bz in Vitro and in Vivo by Geldanamycin and Dihydrogeldanamycin Derivatives" JOHNAL OF MEDICINAL CHRISTRY, AMERICAN CHRISTOR, GEOGRAPH (SECTION 1987), 1989,	1-31
	1-31
	7
	İ
	- 00
e	
·	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims II-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claim 31 is directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

stional application No. PCT/US2005/010351

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210 2 Claims Nos.: Coaste Note:

because they relate to parts of the interestional Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: 3. Cleims Nos.: County rese, they are decendent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Boy III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet) This international Searching Authority found multiple inventions in this international application, as follows: As all required additional search fees were timely paid by the applicant, trie international Search Report covers all As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search less were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Not.; No required additional search fees were limely patid by the applicant. Consequently, this international Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.: Remerk on Protest The additional exerch fees were accompanied by the applicant's protest No protest accompanied the payment of additional secret foce.

Ir | Application No PCT/US2005/010351

Patent docum cited in search r		Publication date		Patent family member(s)		Publication date
WO 030660)5 A	14-08-2003	AU	2003217393		02-09-2003
			CA	2474508		14-08-2003
			EP	1472230		03-11-2004
			WO	03066005		14-08-2003
			AU	2002364566		23-06-2003
			ΑU	2003303058		09-07-2004
			CA	2468202		19-06-2003
			EP	1519735		06-04-2005
			MO	2004054624		01-07-2004
			US	2005074457	A1	07-04-2005
WD 004580	. A	10-08-2000	AU	2986800	A	25-08-2000
			WO	0045805	A2	10-08-2000
WO 940857	3 A	28-04-1994	AU	5360694	Α	09-05-1994
			CA	2146668	A1	28-04-1994
			EP	0664702	A1	02-08-1999
			JP	8502488		19-03-1996
			WO	9408578	A2	28-04-199